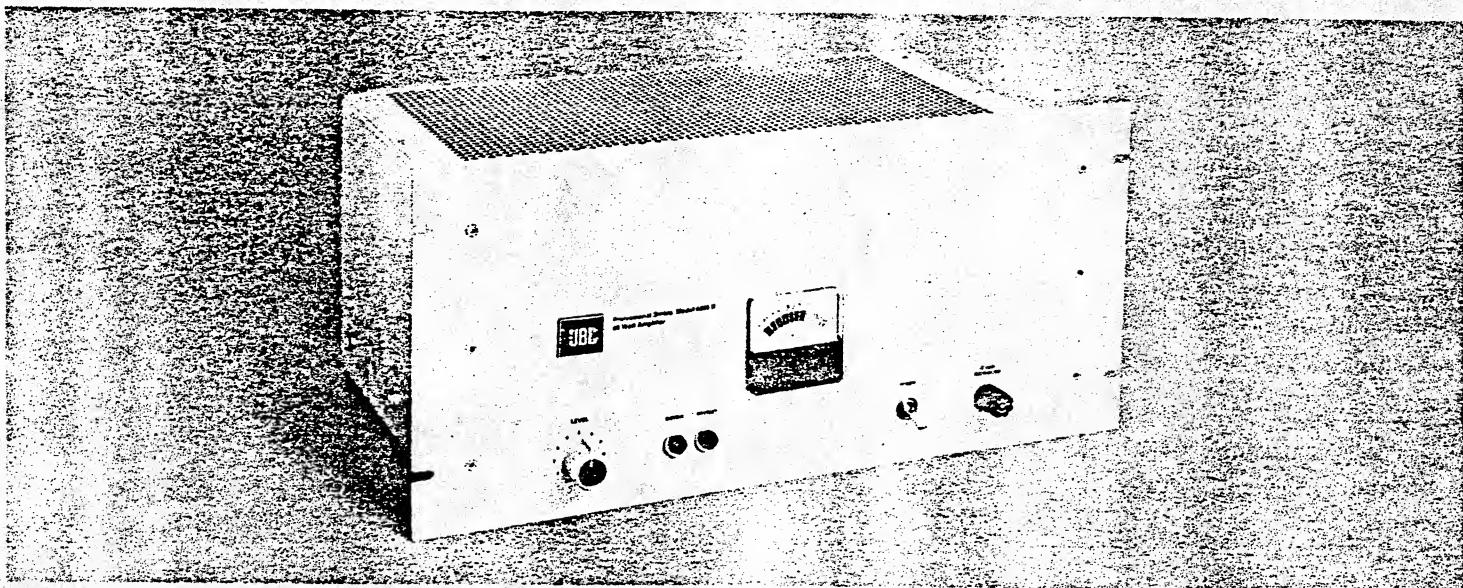


# Professional Series Model 6006B Power Amplifier

60 watts @ less than  
1.0% THD 40-12 kHz  
85 dB signal to noise ratio  
Power output meter



The JBL 6006B is a highly reliable, conservatively rated amplifier, designed for professional sound engineering applications where a high degree of performance is required.

The circuitry has been carefully designed to reduce the possibility of failure within the specified environmental and electrical conditions. A protective circuit is utilized in this amplifier which makes it virtually impossible to damage it under any conditions of overload, including shorted or grossly mismatched load, inductive load at low frequencies, capacitive load at high frequencies, excessive input signal, white noise or installation errors.

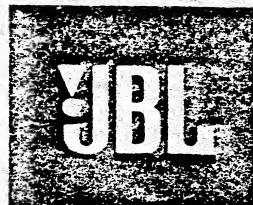
The JBL 6006B can be overdriven by at least ten times normal input voltage, from 40Hz-12 kHz, and eventually produces square waves increasing in RMS value up to about 110 watts at which point the output actually begins to decrease.

The DC fuse is intended as a protective device for the power supply in the event of output stage malfunction. It is not intended to protect the output transistors which are guarded by the special circuitry provided. As an

indication of high-frequency stability, the JBL 6006B draws only 30% more power from the AC line at 12 kHz, 60W, than at 1 kHz for at least one hour without malfunction or entering the "protect" mode.

The 6006B amplifier is designed for maximum flexibility in varying input and output arrangements. A standard unbalanced 50K input is provided which can be converted to balanced line bridging or matching with the installation of the accessory 5195 transformer. A low cut filter switch reduces the possibility of damaging horns. All the power outputs are balanced and the bridging output unbalanced.

The excellent engineering of this unit is accompanied by an equally excellent layout with serviceability in mind at all times. All components are accessible and easily replaced with particular emphasis on output and driver device removal and installation.



# Model 6006 B – Power Amplifier

## Architectural Specifications

The amplifier shall be capable of delivering an output of 60W RMS with less than 1.0% THD, 40-12,000 Hz, and 75W RMS from 50 to 8000 Hz with less than 4% THD.

The high impedance program input shall be provided with a socket to accommodate a balanced line with isolation. Matching and bridging inputs shall be available. Screw type terminal boards shall be provided for the balanced line inputs as well as for the high impedance unbalanced input. In addition, a phono plug shall be provided for the high impedance input. A low frequency filter switch shall be provided.

The amplifier shall have balanced 8-ohm, 16-ohm and 70.7-volt outputs on a screw type terminal board listed by Underwriters' Laboratories, Inc. for class 2 wiring.

The amplifier shall be equipped with a protective circuit which will prevent damage due to overload. A power output meter shall be standard equipment.

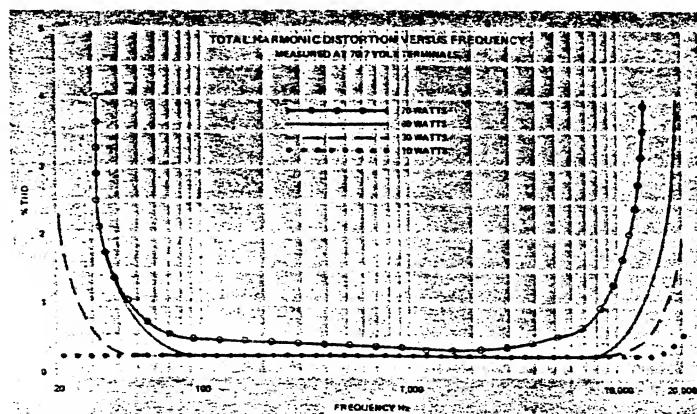
The amplifier shall operate on 120/240 VAC, 50/60 Hz power source.

The performance specifications shall be as listed under SPECIFICATIONS and shall be met or exceeded.

The amplifier shall be listed by the Underwriters' Laboratories, Inc.

The amplifier shall be JBL Model 6006B.

Specifications	Value
Power Output	80.0W
Input Sensitivity	0.7 volts
Unbalanced Input	150,000 ohms
Balanced Bridging with 5198 Transformer	0.383 mV
Balanced Matching with 5198 Transformer	1000 ohms
Power Output	0.077 watts
	60 Watts at less than 1.0% THD
	40 to 12,000 Hz
	75 Watts at less than 4% THD
	50 to 2000 Hz
Power Bandwidths	
(At Rated Power)	40 to 12,000 Hz
THD Harmonic Distortion	
Intermodulation Distortion	
CMITE Standard	Less than 2.0%
Full Power	Less than 1.0%
10 Watts RMS	Less than 1.0%
0.14 Watts RMS	Less than 1.0%
Frequency Response	
(Measured at 3 Watts)	20 to 20,000 Hz ± 2.0%
Load Impedance	
Transformer balanced	8, 16 or 32.5 ohms
Unbalanced Direct Output	4 ohms
Load Voltage	
(Pub Power)	12.5 volts
8-ohm output	22.9 volts
16-ohm output	37.0 volts
70.7-volt output	70.7 volts
Output Regulation	
Signal Noise, Roster	Better than 65 dB below half power
Line Out Fader	Better than 65 dB below half power
Line Final Stage Switch	50 ohms
Final Panel Controls	
Power	Toggle switch
Level	Continuous
Gain	Continuous
Mute	Continuous
Test Mode	Continuous
Power Supply	
Power Consumption	120/240 VAC, 50/60 Hz
Output	20 Watts
25% Output	77 Watts
Full Power	125 Watts
Standby	4 watts (line-off, 240V)
Maximum Ambient	740°F (230°C)
Operating Temperature	40°F to 104°F (5°C to 40°C)
Overall Features	
Dimensions	8.3" x 19.5" x 11.25" deep
Inducting Controls	22.2 x 49.5 x 29.5 cm deep
Mounting	10.4" x 23.6" x 7.3" wide
Mounting	8.1 ft standard neck spacing
Power Fuses	Normal: 100mA, 5x20mm, light gray
New Weight	27 lbs.
Shipping Weight	47 lbs.
Warranty	2 years
Length	Underwriters Laboratories, Inc.
Length	UL 1083 Approved

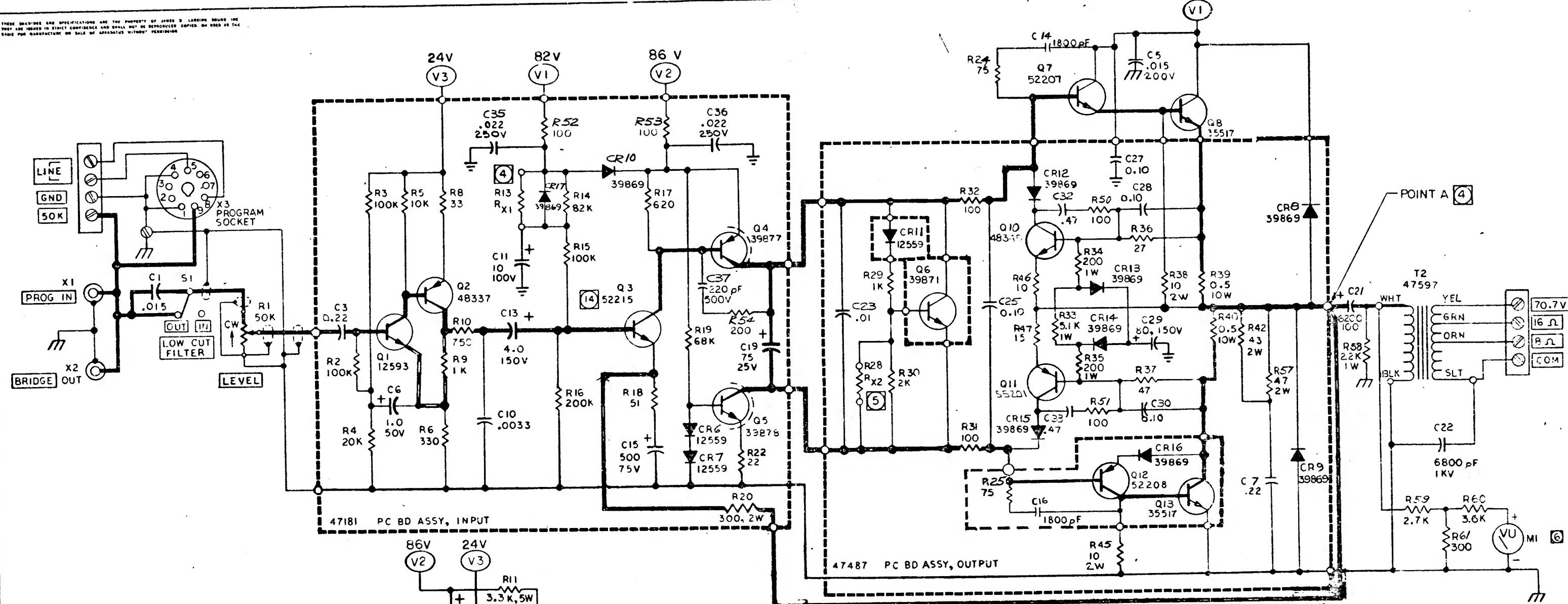


PPB6006B/75 Printed in U.S.A.



Professional Series  
Professional Division

James B. Lansing Sound, Inc. 3249 Casitas Avenue, Los Angeles, California 90039



8 7 XX IS DC VOLTAGE WITH VTVM REFERRED TO CHASSIS GROUND WITH NO SIGNAL

6 AT 48W OUT VU METER TO READ ZERO.

5. ADJUST Rx2 FOR 10mV MIN.20mV MAX. ACROSS 0.50Ω COLLECTOR RESISTOR AT THE OUTPUT TRANSISTOR, VOM LEADS MUST BOTH

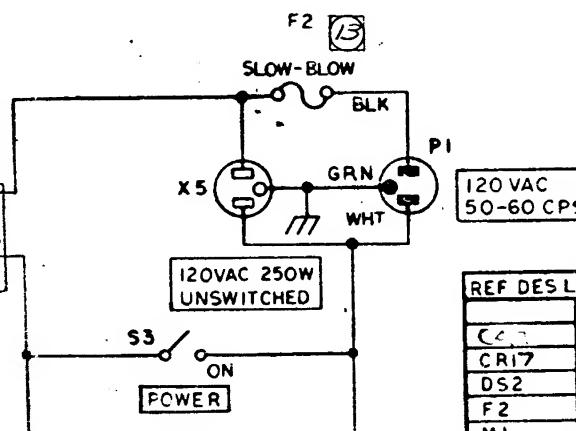
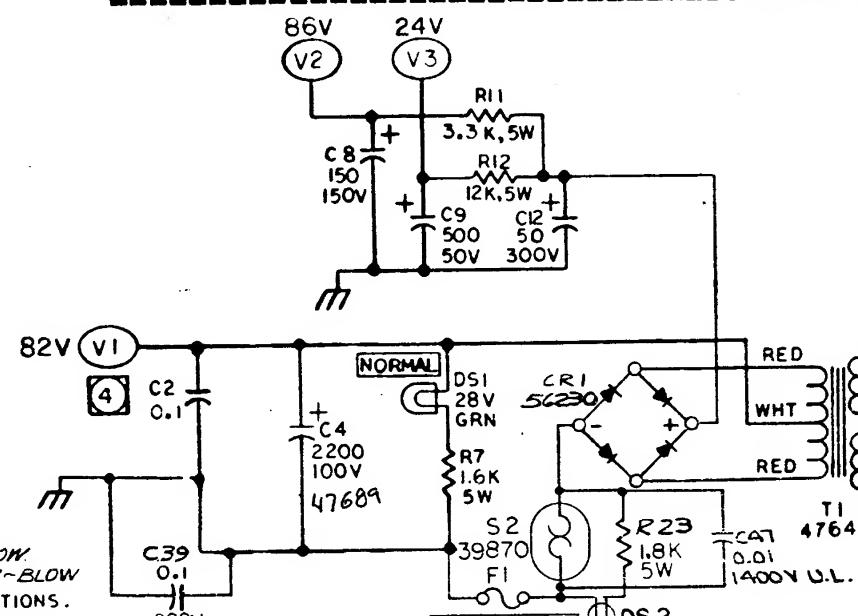
3 ADJUST RX2 FOR 100% THRESHOLD  
FLOAT FROM CHASSIS GND POTENTIA

4 ADJUST RX1 FOR 1/2 OF (VI) AT POINT A  
3 IBI RESERVES THE RIGHT TO MAKE MINOR COMPONENT CHANGES WITHOUT

3. JBL RESERVES THE RIGHT TO MAKE MINOR COMPONENT CHANGES WITHOUT NOTICE.  
2. CAPACITORS IN MICROFARADS. THOSE OVER 1.0  $\mu$ F ARE POLARIZED ELECTROLYTICS, POLARITY SHOW

**1. RESISTORS IN OHMS, 1/2 WATT  $\pm$  5%**

NOTES: UNLESS OTHERWISE SPECIFIED



REF DES	LAST USED	NOT USED
	S 3	C17, C20, C24, 26
C4	T 2	C31, C34, C38, C40, 45
CR17	X 5	CR2, 3, 4, 5
DS2	78	X4
F2		.
M1		
Q13		Q9
R6	-	R21, 26, 27, 41, 43, 44 R48, 49, 55, 57

